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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/697,632	10/29/2003	Manabu Takeuchi	MM4646	7343	
1109 75	04/10/2006		EXAM	EXAMINER	
ANDERSON, KILL & OLICK, P.C.			DOUGHERTY, THOMAS M		
1251 AVENUE OF THE AMERICAS NEW YORK,, NY 10020-1182 '			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 04/10/2006	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/697,632	TAKEUCHI ET AL				
		Examiner	Art Unit	(100			
		Thomas M. Dougherty	2834	_			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SH WHIC - Exter - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMI 36(a). In no event, however, m vill apply and will expire SIX (6) , cause the application to become	JNICATION.  ay a reply be timely filed  MONTHS from the mailing date of this cone ABANDONED (35 U.S.C. § 133).				
Status							
2a) <u></u>	Responsive to communication(s) filed on <u>28 Fe</u> .  This action is <b>FINAL</b> . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final.	•	merits is			
Dispositi	on of Claims						
5) □ 6) ⋈ 7) ⋈ 8) □ <b>Applicati</b> 9) □ 10) ⋈	Claim(s) 1-5 and 10-12 is/are pending in the appearance of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1 is/are rejected.  Claim(s) 2-5 and 10-12 is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on 28 February 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The Oath Oath Oath Oath Oath Oath Oath Oath	wn from consideration r election requirement r. e: a)⊠ accepted or by drawing(s) be held in abo ion is required if the draw	□ objected to by the Examineyance. See 37 CFR 1.85(a). ving(s) is objected to. See 37 CF	R 1.121(d).			
Priority u	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 1205, 206.	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO	l-152)			

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ide et al. (US 6,396,201) in view of Namima (JP 09-116049). Ide et al. show (figs. 1a, 1b, 2, 3) a piezoelectric device comprising: a piezoelectric vibrating reed (1) having excitation electrodes (e.g. 11), a package (5) with outer terminals (e.g. 212) into which the piezoelectric vibrating reed (1) is mounted.

Namima does not show a strip of insulating material having electrical conductors in the form of wiring patterns disposed thereon for forming an insulating bonding (TAB) tape, with said TAB tape being interposed in said package such that the excitation electrodes of said piezoelectric vibrating reed are interconnected to the outer terminals of the package through the conductive wiring patterns on said TAB tape.

Namima shows (published abstract figure) a semiconductor device comprising: a a mounted component (1) having excitation electrodes, a package (8, 9) with outer terminals (3, 4) into which the component (1) is mounted; Namima shows a strip of insulating material having electrical conductors in the form of wiring patterns disposed thereon for forming an insulating bonding (TAB) tape (10, 11), with said TAB tape (10, 11) being interposed in said package (8, 9) such that the excitation electrodes

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(understood) of said component are interconnected to the outer terminals (3, 4) of the package (8, 9) through the conductive wiring patterns on said TAB tape (10, 11).

Namima does not show a piezoelectric vibrating reed.

It would have been obvious to one having ordinary skill in the art to use the TAB tape of Namima in the device of Ide et al., at the time of their invention, in order to provide a thin compact, light and inespensive device which is excellent in heat dissipation function as Namima notes in his PROBLEM TO BE SOLVED.

## Allowable Subject Matter

Claims 2-5 and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Direct inquiry to Examiner Dougherty at (571) 272-2022.

April 6, 2006

tmd

TOM DOUGHERTY PRIMARY EXAMINER

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